

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	("5717924" or "20030055822").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/13 10:37
L2	43995	(junction or temporary or auxiliary or lookup) adj table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/13 10:38
L3	5	2 and table with (relationship with link) with (chang\$6 or modif\$6 or alter\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/13 10:41
L4	387	2 and table with (relationship or link) with (chang\$6 or modif\$6 or alter\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/13 10:41
L5	300	2 and table with (relationship or links!) with (chang\$6 or modif\$6 or alter\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/13 10:42
L6	133	2 and table with (relationships! or links!) with (chang\$6 or modif\$6 or alter\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/13 10:43
L7	43	6 and (relationships! or links!) near3 (chang\$6 or modif\$6 or alter\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/13 10:43
L8	56	6 and (relationship or link) near3 (chang\$6 or modif\$6 or alter\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/13 10:43
L9	28	6 and (relationship or link) near (chang\$6 or modif\$6 or alter\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/13 10:48

EAST Search History

L10	244	2 and key adj pair	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/13 10:50
L11	68	10 and (remov\$6 or delet\$6) with (directive or key)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/13 10:51
L12	2	10 and (remov\$6 or delet\$6) with (directive or (key adj pair))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/13 10:49
L13	2	11 and (key adj pair) near6 table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/13 10:50
L14	2	11 and (key adj pair) with table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/13 10:50
L15	68	10 and (remov\$6 or delet\$6) with (directive or key or oposite)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/13 10:51


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 Terms used: **key pair link relationship table**

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1 [Link and channel measurement: A simple mechanism for capturing and replaying wireless channels](#)



Glenn Judd, Peter Steenkiste

 August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**

Publisher: ACM Press

Full text available: pdf(6.06 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

2 [A survey on peer-to-peer key management for mobile ad hoc networks](#)



Johann Van Der Merwe, Dawoud Dawoud, Stephen McDonald

 April 2007 **ACM Computing Surveys (CSUR)**, Volume 39 Issue 1

Publisher: ACM Press

Full text available: pdf(872.71 KB)




 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The article reviews the most popular peer-to-peer key management protocols for mobile ad hoc networks (MANETs). The protocols are subdivided into groups based on their design strategy or main characteristic. The article discusses and provides comments on the strategy of each group separately. The discussions give insight into open research problems in the area of pairwise key management.

Keywords: Mobile ad hoc networks, pairwise key management, peer-to-peer key management, security

3 [Computing curricula 2001](#)


 September 2001 **Journal on Educational Resources in Computing (JERIC)**

 **Publisher:** ACM PressFull text available:  [pdf\(613.63 KB\)](#)
 [html\(2.78 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4 [The BUCKY object-relational benchmark](#)



Michael J. Carey, David J. DeWitt, Jeffrey F. Naughton, Mohammad Asgarian, Paul Brown, Johannes E. Gehrke, Dhaval N. Shah

June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97**, Volume 26 Issue 2**Publisher:** ACM PressFull text available:  [pdf\(1.48 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

According to various trade journals and corporate marketing machines, we are now on the verge of a revolution—the object-relational database revolution. Since we believe that no one should face a revolution without appropriate armaments, this paper presents BUCKY, a new benchmark for object-relational database systems. BUCKY is a query-oriented benchmark that tests many of the key features offered by object-relational systems, including row types and inheritance, references and path e ...

5 [SHARP: an architecture for secure resource peering](#)



Yun Fu, Jeffrey Chase, Brent Chun, Stephen Schwab, Amin Vahdat

October 2003 **ACM SIGOPS Operating Systems Review , Proceedings of the nineteenth ACM symposium on Operating systems principles SOSP '03**, Volume 37 Issue 5**Publisher:** ACM PressFull text available:  [pdf\(339.51 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper presents Sharp, a framework for secure distributed resource management in an Internet-scale computing infrastructure. The cornerstone of Sharp is a construct to represent cryptographically protected resource *claims*---promises or rights to control resources for designated time intervals---together with secure mechanisms to subdivide and delegate claims across a network of resource managers. These mechanisms enable flexible *resource peering* ...

Keywords: peer-to-peer, resource allocation, resource peering

6 [ROFL: routing on flat labels](#)



Matthew Caesar, Tyson Condie, Jayanthkumar Kannan, Karthik Lakshminarayanan, Ion Stoica

August 2006 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2006 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '06**, Volume 36 Issue 4**Publisher:** ACM PressFull text available:  [pdf\(315.75 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

It is accepted wisdom that the current Internet architecture conflates network locations and host identities, but there is no agreement on how a future architecture should distinguish the two. One could sidestep this quandary by routing directly on host identities themselves, and eliminating the need for network-layer protocols to include any mention of network location. The key to achieving this is the ability to route on flat labels. In this paper we take an initial stab at this challenge, pro ...

Keywords: internet architecture, naming, routing

7 FIRE: flexible Intra-AS routing environment

Craig Partridge, Alex C. Snoeren, W. Timothy Strayer, Beverly Schwartz, Matthew Condell, Isidro Castiñeyra

August 2000 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication SIGCOMM '00**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(107.75 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Current routing protocols are monolithic, specifying the algorithm used to construct forwarding tables, the metric used by the algorithm (generally some form of hop-count), and the protocol used to distribute these metrics as an integrated package. The Flexible Intra-AS Routing Environment (FIRE) is a link-state, intra-domain routing protocol that decouples these components. FIRE supports run-time-programmable algorithms and metrics over a secure link-state distribution protocol. By allow ...

8 Cryptography and data security

Dorothy Elizabeth Robling Denning

January 1982 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(19.47 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

From the Preface (See Front Matter for full Preface)

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

9 On interdomain routing security and pretty secure BGP (psBGP)

P.C. van Oorschot, Tao Wan, Evangelos Kranakis

July 2007 **ACM Transactions on Information and System Security (TISSEC)**, Volume 10 Issue 3

Publisher: ACM Press

Full text available: pdf(469.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

It is well known that the Border Gateway Protocol (BGP), the IETF standard interdomain routing protocol, is vulnerable to a variety of attacks, and that a single misconfigured or malicious BGP speaker could result in large-scale service disruption. In this paper, we present *Pretty Secure BGP (psBGP)*---a proposal for securing BGP, including an architectural overview, design details for significant aspects, and preliminary security and operational analysis. psBGP differs from other secur ...

Keywords: BGP, authentication, certificates, interdomain routing, public-key infrastructure, secure routing protocols, trust

10

Routing: ANODR: anonymous on demand routing with untraceable routes for mobile ad-hoc networks





Jiejun Kong, Xiaoyan Hong

June 2003 **Proceedings of the 4th ACM international symposium on Mobile ad hoc networking & computing MobiHoc '03**

Publisher: ACM Press

Full text available: pdf(236.79 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In hostile environments, the enemy can launch traffic analysis against interceptable routing information embedded in routing messages and data packets. Allowing adversaries to trace network routes and infer the motion pattern of nodes at the end of those routes may pose a serious threat to covert operations. We propose ANODR, an anonymous on-demand routing protocol for mobile ad hoc networks deployed in hostile environments. We address two closely related problems: For *route anonymity*, AN ...

Keywords: anonymity, broadcast, mobile ad-hoc network, on-demand routing, pseudonymity, trapdoor, untraceability

11 [Peer to peer networks: Tarzan: a peer-to-peer anonymizing network layer](#)



Michael J. Freedman, Robert Morris

November 2002 **Proceedings of the 9th ACM conference on Computer and communications security CCS '02**

Publisher: ACM Press

Full text available: pdf(242.72 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Tarzan is a peer-to-peer anonymous IP network overlay. Because it provides IP service, Tarzan is general-purpose and transparent to applications. Organized as a decentralized peer-to-peer overlay, Tarzan is fault-tolerant, highly scalable, and easy to manage. Tarzan achieves its anonymity with layered encryption and multi-hop routing, much like a Chaumian mix. A message initiator chooses a path of peers pseudo-randomly through a restricted topology in a way that adversaries cannot easily influence ...

Keywords: IP tunnels, anonymity, cover traffic, distributed trust, mix-nets, overlay networks, peer-to-peer

12 [Distributed systems of little things: Persistent personal names for globally connected mobile devices](#)

Bryan Ford, Jacob Strauss, Chris Lesniewski-Laas, Sean Rhea, Frans Kaashoek, Robert Morris

November 2006 **Proceedings of the 7th symposium on Operating systems design and implementation OSDI '06**

Publisher: USENIX Association

Full text available: pdf(1.16 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

The *Unmanaged Internet Architecture* (UIA) provides zero-configuration connectivity among mobile devices through *personal names*. Users assign personal names through an ad hoc device introduction process requiring no central allocation. Once assigned, names bind securely to the global identities of their target devices independent of network location. Each user manages one namespace, shared among all the user's devices and always available on each device. Users can also name other ...

13 [Data persistence and binding: Anatomy of the ADO.NET entity framework](#)



Atul Adya, José A. Blakeley, Sergey Melnik, S. Muralidhar

June 2007 **Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07**

Publisher: ACM Press

Full text available:  pdf(732.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Traditional client-server applications relegate query and persistence operations on their data to database systems. The database system operates on data in the form of rows and tables, while the application operates on data in terms of higher-level programming language constructs (classes, structures etc.). The *impedance mismatch* in the data manipulation services between the application and the database tier was problematic even in traditional systems. With the advent of service-orient ...

Keywords: ADO.NET, conceptual modeling, data programming

14 Privacy through pseudonymity in user-adaptive systems



Alfred Kobsa, Jörg Schreck

May 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 2

Publisher: ACM Press

Full text available:  pdf(881.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

User-adaptive applications cater to the needs of each individual computer user, taking for example users' interests, level of expertise, preferences, perceptual and motoric abilities, and the usage environment into account. Central user modeling servers collect and process the information about users that different user-adaptive systems require to personalize their user interaction. Adaptive systems are generally better able to cater to users the more data their user modeling systems collect and ...

Keywords: Chaum mix, KQML, User modeling, access control, anonymity, encryption, personal information, personalization, privacy, pseudonymity, reference model, secrecy, security, user-adaptive systems

15 Multi-agent systems and social behavior: A user-centric anonymous authorisation framework in e-commerce environment



Richard Au, Harikrishna Vasanta, Kim-Kwang Raymond Choo, Mark Looi

March 2004 **Proceedings of the 6th international conference on Electronic commerce ICEC '04**

Publisher: ACM Press

Full text available:  pdf(291.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A novel user-centric authorisation framework suitable for e-commerce in an open environment is proposed. The credential-based approach allows a user to gain access rights anonymously from various service providers who may not have pre-existing relationships. Trust establishment is achieved by making use of referrals from external third parties in the form of *Anonymous Attribute Certificates*. The concepts of *One-task Authorisation Key* and *Binding Signature* are proposed to fac ...

16 Semantic constraints for trust transitivity

Audun Jøsang, Simon Pope

January 2005 **Proceedings of the 2nd Asia-Pacific conference on Conceptual modelling - Volume 43 APCCM '05**

Publisher: Australian Computer Society, Inc.

Full text available:  pdf(232.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To describe the concept of transitive trust in a simplified way, assume that agent *A* trusts agent *B*, and that agent *B* trusts agent *C*, then by transitivity, agent *A* trusts agent *C*. Trust transitivity manifests itself in various forms during real life human interaction, but can be challenging to concisely model in a formal way. In this paper we describe principles

for expressing and analysing transitive trust networks, and define requirements for their val ...

17 Beg, borrow, or steal: COMBINE: leveraging the power of wireless peers through collaborative downloading



Ganesh Ananthanarayanan, Venkata N. Padmanabhan, Lenin Ravindranath, Chandramohan A. Thekkath

June 2007 **Proceedings of the 5th international conference on Mobile systems, applications and services MobiSys '07**

Publisher: ACM Press

Full text available: [pdf\(358.45 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mobile devices are increasingly equipped with multiple network interfaces: Wireless Local Area Network (WLAN) interfaces for local connectivity and Wireless Wide Area Network (WWAN) interfaces for wide-area connectivity. The WWAN typically provides much wider coverage but much lower speeds than the WLAN. To address this dichotomy, we present COMBINE, a system for collaborative downloading wherein devices that are within WLAN range pool together their WWAN links, significantly increasing the e ...

Keywords: accounting, battery, collaborative, multi-homed, power

18 Nondeterministic Queries in a Relational Grid Information Service

Peter A. Dinda, Dong Lu

November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing SC '03**

Publisher: IEEE Computer Society

Full text available: [pdf\(398.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

A Grid Information Service (GIS) stores information about the resources of a distributed computing environment and answers questions about it. We are developing RGIS, a GIS system based on the relational data model. RGIS users can write SQL queries that search for complex compositions of resources that meet collective requirements. Executing these queries can be very expensive, however. In response, we introduce the nondeterministic query, an extension to the SELECT statement, which allows the u ...

19 Trustworthy 100-year digital objects: Evidence after every witness is dead



Henry M. Gladney

July 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In ancient times, wax seals impressed with signet rings were affixed to documents as evidence of their authenticity. A digital counterpart is a message authentication code fixed firmly to each important document. If a digital object is sealed together with its own audit trail, each user can examine this evidence to decide whether to trust the content---no matter how distant this user is in time, space, and social affiliation from the document's source. We propose an architecture and design that a ...


20 SybilGuard: defending against sybil attacks via social networks



Haifeng Yu, Michael Kaminsky, Phillip B. Gibbons, Abraham Flaxman

August 2006 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2006 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '06**, Volume 36 Issue 4

Publisher: ACM Press

Full text available:  pdf(372.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Peer-to-peer and other decentralized, distributed systems are known to be particularly vulnerable to *sybil attacks*. In a sybil attack, a malicious user obtains multiple fake identities and pretends to be multiple, distinct nodes in the system. By controlling a large fraction of the nodes in the system, the malicious user is able to "out vote" the honest users in collaborative tasks such as Byzantine failure defenses. This paper presents *SybilGuard*, a novel protocol for limiting the co ...

Keywords: social networks, sybil attack, sybil identity, sybilGuard

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21 [Accounting and management: Generic accounting configuration management for heterogeneous mobile networks](#)



Frank Eyermann, Peter Racz, Burkhard Stiller, Christian Schaefer, Thomas Walter

September 2005 **Proceedings of the 3rd ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '05**

Publisher: ACM Press

Full text available: pdf(252.81 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Accounting performed by network and service providers covers the tasks of determining, collecting, and evaluating information on the service usage of their customers. This information forms the basis of the subsequent charging process. For performing these tasks in case of heterogeneous mobile networks a generic configuration management, specifically tailored at the provisioning of various Internet services is needed. This work defines a role model covering all participating entities of a distri ...

Keywords: accounting, accounting architecture, charging, hand-over, mobile network operators, roaming, single bill

22 [Securing IPv6 neighbor and router discovery](#)

Jari Arkko, Tuomas Aura, James Kempf, Vesa-Matti Mäntylä, Pekka Nikander, Michael Roe
September 2002 **Proceedings of the 1st ACM workshop on Wireless security WiSE '02**

Publisher: ACM Press

Full text available: pdf(113.58 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

When IPv6 Neighbor and Router Discovery functions were defined, it was assumed that the local link would consist of mutually trusting nodes. However, the recent developments in public wireless networks, such as WLANs, have radically changed the situation. The nodes on a local link cannot necessarily trust each other any more, but they must become mutually suspicious even when the nodes have completed an authentication exchange with the network. This creates a number of operational difficulties a ...

Keywords: autoconfiguration, detection, duplicate address, identity-based cryptosystems, neighbor discovery, router discovery

A data-oriented (and beyond) network architecture

Teemu Koponen, Mohit Chawla, Byung-Gon Chun, Andrey Ermolinskiy, Kye Hyun Kim, Scott Shenker, Ion Stoica

August 2007 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2007 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '07**, Volume 37 Issue 4


Publisher: ACM Press

Full text available:  [pdf\(841.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Internet has evolved greatly from its original incarnation. For instance, the vast majority of current Internet usage is data retrieval and service access, whereas the architecture was designed around host-to-host applications such as telnet and ftp. Moreover, the original Internet was a purely transparent carrier of packets, but now the various network stakeholders use middleboxes to improve security and accelerate applications. To adapt to these changes, we propose the Data-Oriented Net ...

Keywords: data, internet architecture, middleboxes, name resolution, naming

24 Comparison of access methods for time-evolving data

 Betty Salzberg, Vassilis J. Tsotras

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2


Publisher: ACM Press

Full text available:  [pdf\(529.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper compares different indexing techniques proposed for supporting efficient access to temporal data. The comparison is based on a collection of important performance criteria, including the space consumed, update processing, and query time for representative queries. The comparison is based on worst-case analysis, hence no assumptions on data distribution or query frequencies are made. When a number of methods have the same asymptotic worst-case behavior, features in the methods tha ...

Keywords: I/O performance, access methods, structures, temporal databases

25 Encryption and Secure Computer Networks

 Gerald J. Popek, Charles S. Kline

December 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(2.50 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

26 Anonymity systems & formal method: A k -anonymous communication protocol for overlay networks

 Pan Wang, Peng Ning, Douglas S. Reeves

March 2007 **Proceedings of the 2nd ACM symposium on Information, computer and communications security ASIACCS '07**

Publisher: ACM Press

Full text available:  [pdf\(456.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Anonymity is increasingly important for network applications concerning about censorship and privacy. The existing anonymous communication protocols generally stem from mixnet and DC-net. They either cannot provide provable anonymity or suffer from transmission collision. In this paper, we introduce a novel approach which takes advantage of hierarchical ring structure and mix technique. This proposed protocol is collision free

and provides provable k -anonymity for both the sender and t ...

Keywords: anonymity, overlay networks, security

27 Ad hoc networks and RFID (work in progress): Key distribution and update for secure inter-group multicast communication



Weichao Wang, Bharat Bhargava

November 2005 **Proceedings of the 3rd ACM workshop on Security of ad hoc and sensor networks SASN '05**

Publisher: ACM Press

Full text available: pdf(191.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Group communication has become an important component in wireless networks. In this paper, we focus on the environments in which multiple groups coexist in the system, and both intra and inter group multicast traffic must be protected by secret keys. We propose a mechanism that integrates polynomials with flat tables to achieve personal key share distribution and efficient key refreshment during group changes. The proposed mechanism distributes keys via true broadcast. The contributions of the r ...

Keywords: inter-group communication, key distribution and update, security

28 Special feature: Report on a working session on security in wireless ad hoc networks



Levente Buttyán, Jean-Pierre Hubaux

January 2003 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 7 Issue 1

Publisher: ACM Press

Full text available: pdf(2.50 MB) Additional Information: [full citation](#), [references](#), [citations](#)

29 Security in mobile communications: challenges and opportunities

Audun Jøsang, Gunnar Sanderud

January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 ACSW Frontiers '03**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(117.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The nature of mobile communication, characterised for example by terminals having poor user interface and limited processing capacity, as well as complex combination of network protocols, makes the design of security solutions particularly challenging. This paper discusses some of the difficulties system architects are faced with as well as some advantages mobile networks offer when designing security solutions for mobile communication.

Keywords: heterogeneous networks, mobile devices, security, usability

30 The design and implementation of a private message service for mobile computers

David A. Cooper, Kenneth P. Birman

August 1995 **Wireless Networks**, Volume 1 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: pdf(1.35 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

Even as wireless networks create the potential for access to information from mobile

platforms, they pose a problem for privacy. In order to retrieve messages, users must periodically poll the network. The information that the user must give to the network could potentially be used to track that user. However, the movements of the user can also be used to hide the user's location if the protocols for sending and retrieving messages are carefully designed. We have developed a replicated memo ...

31 Privacy-enhanced, attack-resilient access control in pervasive computing environments with optional context authentication capability



Kui Ren, Wenjing Lou

January 2007 **Mobile Networks and Applications**, Volume 12 Issue 1

Publisher: ACM Press

Full text available: pdf(413.79 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In pervasive computing environments (PCEs), privacy and security are two important but contradictory objectives. Users enjoy services provided in PCEs only after their privacy issues being sufficiently addressed. That is, users could not be tracked down for wherever they are and whatever they are doing. However, service providers always want to authenticate the users and make sure they are accessing only authorized services in a legitimate way. In PCEs, such user authentication may include conte ...

Keywords: access control, context authentication, pervasive computing environment (PCE), privacy, security

32 Special section on sensor network technology & sensor data management (part II): A secure hierarchical model for sensor network



Malik Tubaishat, Jian Yin, Biswajit Panja, Sanjay Madria

March 2004 **ACM SIGMOD Record**, Volume 33 Issue 1

Publisher: ACM Press

Full text available: pdf(81.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

In a distributed sensor network, large number of sensors deployed which communicate among themselves to self-organize a wireless ad hoc network. We propose an energy-efficient level-based hierarchical system. We compromise between the energy consumption and shortest path route by utilizing number of neighbors (NBR) of a sensor and its level in the hierarchical clustering. In addition, we design a Secure Routing Protocol for Sensor Networks (SRPSN) to safeguard the data packet passing on t ...

33 Web technologies: Decentralized authorization and data security in web content delivery



Danfeng Yao, Yunhua Koglin, Elisa Bertino, Roberto Tamassia

March 2007 **Proceedings of the 2007 ACM symposium on Applied computing SAC '07**

Publisher: ACM Press

Full text available: pdf(204.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The fast development of web services, or more broadly, service-oriented architectures (SOAs), has prompted more organizations to move contents and applications out to the Web. Softwares on the web allow one to enjoy a variety of services, for example translating texts into other languages and converting a document from one format to another. In this paper, we address the problem of maintaining data integrity and confidentiality in web content delivery when dynamic content modifications are ne ...

Keywords: authorization, content delivery networks, data integrity, web

34 Cryptographic protocols: Design and implementation of the *idemix* anonymous

credential system

Jan Camenisch, Els Van Herreweghen

November 2002 **Proceedings of the 9th ACM conference on Computer and communications security CCS '02**

Publisher: ACM Press

Full text available: pdf(1.09 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Anonymous credential systems [8, 9, 12, 24] allow anonymous yet authenticated and accountable transactions between users and service providers. As such, they represent a powerful technique for protecting users' privacy when conducting Internet transactions. In this paper, we describe the design and implementation of an anonymous credential system based on the protocols developed by [6]. The system is based on new high-level primitives and interfaces allowing for easy integration into access control ...

Keywords: anonymous credential systems, cryptographic protocols, privacy

35 Technologies for repository interoperation and access control

Shirley Browne, Jack Dongarra, Jeff Horner, Paul McMahan, Scott Wells

May 1998 **Proceedings of the third ACM conference on Digital libraries DL '98**

Publisher: ACM Press

Full text available: pdf(1.14 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)36 A taxonomy of Data Grids for distributed data sharing, management, and processing

Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao

June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM Press

Full text available: pdf(1.70 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer networks ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

37 Key management: Fully self-organized peer-to-peer key management for mobile ad hoc networks

Johann van der Merwe, Dawoud Dawoud, Stephen McDonald

September 2005 **Proceedings of the 4th ACM workshop on Wireless security WiSe '05**

Publisher: ACM Press

Full text available: pdf(237.33 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mobile ad hoc networks (MANETs) offer communication over a shared wireless channel without any pre-existing infrastructure. Forming peer-to-peer security associations in MANETs is more challenging than in conventional networks due to the lack of central authority. The main contribution of this paper is a low complexity key management scheme that is suitable for fully self-organized MANETs. The proposed peer-to-peer key management scheme uses subordinate public keys and crypto-based identifiers to ...

Keywords: Mobile IPv6, crypto-based identifiers, identity-based cryptography, mobile ad hoc networks, network level key distribution, network security, pairwise key management, peer-to-peer key management, self-organization, subordinate public keys

38 Decentralized user authentication in a global file system



Michael Kaminsky, George Savvides, David Mazieres, M. Frans Kaashoek

October 2003 **ACM SIGOPS Operating Systems Review , Proceedings of the nineteenth ACM symposium on Operating systems principles SOSP '03**, Volume 37 Issue 5

Publisher: ACM Press

Full text available: pdf(144.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The challenge for user authentication in a global file system is allowing people to grant access to specific users and groups in remote administrative domains, without assuming any kind of pre-existing administrative relationship. The traditional approach to user authentication across administrative domains is for users to prove their identities through a chain of certificates. Certificates allow for general forms of delegation, but they often require more infrastructure than is necessary to sup ...

Keywords: ACL, SFS, authentication, authorization, credentials, file system, groups, users

39 A framework for call graph construction algorithms



David Grove, Craig Chambers

November 2001 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 23 Issue 6

Publisher: ACM Press

Full text available: pdf(1.36 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A large number of call graph construction algorithms for object-oriented and functional languages have been proposed, each embodying different tradeoffs between analysis cost and call graph precision. In this article we present a unifying framework for understanding call graph construction algorithms and an empirical comparison of a representative set of algorithms. We first present a general parameterized algorithm that encompasses many well-known and novel call graph construction algorithms. W ...

Keywords: Call graph construction, control flow analysis, interprocedural analysis

40 Papers: On the validity of digital signatures



Jianying Zhou, Robert Deng

April 2000 **ACM SIGCOMM Computer Communication Review**, Volume 30 Issue 2

Publisher: ACM Press

Full text available: pdf(586.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

An important feature of digital signatures is to serve as non-repudiation evidence. To be eligible as non-repudiation evidence, a digital signature on an electronic document should remain valid until its expiry date which is specified by some non-repudiation policy. As signature keys may be compromised and the validity of signatures may become questionable, additional security mechanisms need to be imposed on digital signatures. This paper examines the mechanisms for maintaining the validity of ...

Keywords: digital signature, non-repudiation, secure electronic commerce

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 Terms used: **key pair link relationship table**

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 Relevance scale ☐ ☐ ☐ ☐ ☐

41 [Self-organized network-layer security in mobile ad hoc networks](#)



Hao Yang, Xiaoqiao Meng, Songwu Lu

 September 2002 **Proceedings of the 1st ACM workshop on Wireless security WiSE '02**

Publisher: ACM Press

Full text available: pdf(226.72 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Protecting the network layer in a mobile ad hoc network is an important research topic in wireless security. This paper describes our unified network-layer security solution in ad hoc networks, which protects both routing and packet forwarding functionalities in the context of the AODV protocol. To address the unique characteristics of ad hoc networks, we take a self-organized approach by exploiting full localized design, without assuming any *a priori* trust or secret association between n ...

Keywords: mobile ad hoc networks, self-organized security

42 [SKMA: a key management architecture for SCADA systems](#)



Robert Dawson, Colin Boyd, Ed Dawson, Juan Manuel González Nieto

 January 2006 **Proceedings of the 2006 Australasian workshops on Grid computing and e-research - Volume 54 ACSW Frontiers '06**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(250.98 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Supervisory Control And Data Acquisition (SCADA) systems are widely used in the management of critical infrastructure such as electricity and water distribution systems. Currently there is little understanding of how to best protect SCADA systems from malicious attacks. We review the constraints and requirements for SCADA security and propose a suitable architecture (SKMA) for secure SCADA communications. The architecture includes a proposed key management protocol (SKMP). We compare the archite ...

Keywords: SCADA security, key distribution center (KDC), key establishment protocols, key management, secure protocol

43 [Compilers 2: Computation regrouping: restructuring programs for temporal data cache locality](#)





Venkata K. Pingali, Sally A. McKee, Wilson C. Hsieh, John B. Carter

June 2002 **Proceedings of the 16th international conference on Supercomputing ICS '02****Publisher:** ACM Press

Full text available: pdf(251.90 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data access costs contribute significantly to the execution time of applications with complex data structures. As the latency of memory accesses becomes high relative to processor cycle times, application performance is increasingly limited by memory performance. In some situations it may be reasonable to trade increased computation costs for reduced memory costs. The contributions of this paper are three-fold: we provide a detailed analysis of the memory performance of a set of seven, memory-in ...

Keywords: data structures, memory performance, optimization

44 General storage protection techniques: Securing distributed storage: challenges, techniques, and systems



Vishal Kher, Yongdae Kim

November 2005 **Proceedings of the 2005 ACM workshop on Storage security and survivability StorageSS '05****Publisher:** ACM Press

Full text available: pdf(294.61 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The rapid increase of sensitive data and the growing number of government regulations that require longterm data retention and protection have forced enterprises to pay serious attention to storage security. In this paper, we discuss important security issues related to storage and present a comprehensive survey of the security services provided by the existing storage systems. We cover a broad range of the storage security literature, present a critical review of the existing solutions, compare ...

Keywords: authorization, confidentiality, integrity, intrusion detection, privacy

45 Secure wireless protocols: An authentication framework for hierarchical ad hoc sensor networks



Mathias Bohge, Wade Trappe

September 2003 **Proceedings of the 2nd ACM workshop on Wireless security WiSe '03****Publisher:** ACM Press

Full text available: pdf(263.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent results indicate scalability problems for flat ad hoc networks. To address the issue of scalability, self-organizing hierarchical ad hoc architectures are being investigated. In this paper, we explore the task of providing data and entity authentication for hierarchical ad hoc sensor networks. Our sensor network consists of three tiers of devices with varying levels of computational and communication capabilities. Our lowest tier consists of compute-constrained sensors that are unable to ...

Keywords: TESLA, ad hoc networks, authentication, handoff

46 Access path support for referential integrity in SQL2

Theo Härder, Joachim Reinert

August 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 3**Publisher:** Springer-Verlag New York, Inc.

Full text available:  pdf(321.13 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The relational model of data incorporates fundamental assertions for entity integrity and referential integrity. Recently, these so-called relational invariants were more precisely specified by the new SQL2 standard. Accordingly, they have to be guaranteed by a relational DBMS to its users and, therefore, all issues of semantics and implementation became very important. The specification of referential integrity embodies quite a number of complications including the MATCH clause and a collection ...

Keywords: Access path support, MATCH clause, Referential integrity, Relational databases, SQL2

47 [Supporting multi-user, multi-applet workspaces in CBE](#)



Jang Ho Lee, Atul Prakash, Trent Jaeger, Gwobaw Wu

November 1996 **Proceedings of the 1996 ACM conference on Computer supported cooperative work CSCW '96**

Publisher: ACM Press

Full text available:  pdf(1.47 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: CSCW toolkits, DistView, Web-based collaboration, access control, group communication, groupware, shared electronic workspaces

48 [Extended abstracts: Authentication on the edge: distributed authentication for a global open wi-fi network](#)



Nathanael A. Thompson, Petros Zerfos, Haiyun Luo, Jatinder Pal Singh, Zuoning Yin

September 2007 **Proceedings of the 13th annual ACM international conference on Mobile computing and networking MobiCom '07**

Publisher: ACM Press

Full text available:  pdf(295.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A global-scale low cost outdoor Internet access infrastructure is finally attainable. Emerging projects are leveraging the proliferation of private Wi-Fi networks to build a global-scale ubiquitous access infrastructure from autonomous, independently owned Internet connections at homes and other private properties. To ensure the trace ability and accountability required by the broadband ISPs and private owners of these Wi-Fi networks, reliable authentication and authorization are needed. This ...

Keywords: EAP-AGE, Wi-Fi networks, authentication, social network

49 [Content delivery in ad hoc networks: Content-aware search of multimedia data in ad hoc networks](#)



Bo Yang, Ali R. Hurson

October 2005 **Proceedings of the 8th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems MSWiM '05**

Publisher: ACM Press

Full text available:  pdf(314.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The infrastructure-free and self-organizing nature of wireless ad hoc networks presents fundamental challenges to the design of content-based multimedia search algorithms that are efficient with respect to search cost and fair across various network setups. In contrast to the wealth of research literature on ad hoc routing protocols, few works have realistically considered the methods of locating multimedia data sources in a highly

dynamic ad hoc network. Moreover, multimedia information retrieval ...

Keywords: ad hoc network, content distribution, multimedia data retrieval

50 Automatic testing equivalence verification of spi calculus specifications



Luca Durante, Riccardo Sisto, Adriano Valenzano

April 2003 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 12 Issue 2

Publisher: ACM Press

Full text available: pdf(829.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Testing equivalence is a powerful means for expressing the security properties of cryptographic protocols, but its formal verification is a difficult task because of the quantification over contexts on which it is based. Previous articles have provided insights into using theorem-proving for the verification of testing equivalence of spi calculus specifications. This article addresses the same verification problem, but uses a state exploration approach. The verification technique is based on the ...

Keywords: Cryptographic protocols, equivalence verification, state space exploration

51 Automated cross-organisational trust establishment on extranets



Richard Au, Mark Looi, Paul Ashley

January 2001 **Australian Computer Science Communications , Proceedings of the workshop on Information technology for virtual enterprises ITVE '01 , Proceedings of the workshop on Information technology for virtual enterprises ITVE '01**, Volume 23 Issue 6

Publisher: IEEE Computer Society, IEEE Computer Society Press

Full text available: pdf(779.60 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)



[Publisher Site](#)

Trust management is an important aspect of information security in an organisation. It involves the complexity of relationships among people, computers and the organisational system. It becomes even more complex in the virtual enterprise environment where cross-organisational activities are involved. This paper presents a new paradigm for establishing trust across multiple organisations for external users on extranets. In our approach, the authorities of organisations administer their local user ...

Keywords: extranet, security server, trust agent, trust distribution, trust establishment, trust token, web of trust

52 Automatic spelling correction in scientific and scholarly text



Joseph J. Pollock, Antonio Zamora

April 1984 **Communications of the ACM**, Volume 27 Issue 4

Publisher: ACM Press

Full text available: pdf(901.06 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: dictionary lookup, similarity keys, spelling correction

53 Network layer access control for context-aware IPv6 applications



Adrian Friday, Maomao Wu, Joe Finney, Stefan Schmid, Keith Cheverst, Nigel Davies

July 2003 **Wireless Networks**, Volume 9 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  pdf(3.57 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As part of the Lancaster GUIDE II project, we have developed a novel wireless access point protocol designed to support the development of next generation mobile context-aware applications in our local environs. Once deployed, this architecture will allow ordinary citizens secure, accountable and convenient access to a set of tailored applications including location, multimedia and context based services, and the public Internet. Our architecture utilises packet marking and network level packet ...

Keywords: authentication, mobile IPv6, public access point, security, wireless Internet

54 What happened to pastry



Andrew Herbert

April 2007 **ACM SIGOPS Operating Systems Review**, Volume 41 Issue 2

Publisher: ACM Press

Full text available:  pdf(238.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes how Microsoft Research goes about the process of technology transfer, using the experience of transferring the MS Pastry Distributed Hash Table and its applications as an example.

Keywords: technology transfer

55 Security issues for wireless ATM networks



Danai Patiyoot

January 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.75 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

To be able to fulfil the need of user in wireless ATM, the system has to acquire features. One of the system features for the wireless ATM is functionality especially the security aspect. There is so far little, if not none, security consideration in the developing of wireless ATM standard. Therefore a wide range of features in security functions is in consideration. This paper tried to define the features of security in wireless ATM networks considering it features from existing fixed ATM network ...

Keywords: security, wireless ATM

56 Privacy preservation and social issues: A privacy-preserving interdomain audit framework



Adam J. Lee, Parisa Tabriz, Nikita Borisov

October 2006 **Proceedings of the 5th ACM workshop on Privacy in electronic society WPES '06**

Publisher: ACM Press

Full text available:  pdf(4.55 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent trends in Internet computing have led to the popularization of many forms of virtual organizations. Examples include supply chain management, grid computing, and collaborative research environments like PlanetLab. Unfortunately, when it comes to the security analysis of these systems, the whole is certainly greater than the sum of its parts.

That is, local intrusion detection and audit practices are insufficient for detecting distributed attacks such as coordinated network reconnaissance, ...

Keywords: data obfuscation, distributed audit, logging

57 Strong accountability for network storage

Aydan R. Yumerefendi, Jeffrey S. Chase

October 2007 **ACM Transactions on Storage (TOS)**, Volume 3 Issue 3

Publisher: ACM


Full text available:  pdf(620.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article presents the design, implementation, and evaluation of CATS, a network storage service with strong accountability properties. CATS offers a simple web services interface that allows clients to read and write opaque objects of variable size. This interface is similar to the one offered by existing commercial Internet storage services. CATS extends the functionality of commercial Internet storage services by offering support for strong accountability.

A CATS server annotates ...


Keywords: Accountable services, accountability, accountable storage

58 DIM security and authentication: Usable presentation of secure pseudonyms

 Katrin Borcea-Pfitzmann, Elke Franz, Andreas Pfitzmann

November 2005 **Proceedings of the 2005 workshop on Digital identity management DIM '05**


Publisher: ACM Press

Full text available:  pdf(202.09 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Privacy-Enhancing Identity Management (PIM) enables users to control which personal information they provide to their communication partner(s) by partitioning their personal information into partial identities for themselves. Since partial identities must not be linkable, they cannot share a global name. Therefore, pseudonyms are used as identifiers. We discuss in this paper that besides the frequency of their use also the (re) presentation of pseudonyms influences the achievable privacy. Particu ...


Keywords: (un)linkability, digital pseudonyms, mnemonics, names, privacy, usability

59 Authentication in the Taos operating system

 Edward Wobber, Martín Abadi, Michael Burrows, Butler Lampson

February 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.88 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We describe a design for security in a distributed system and its implementation. In our design, applications gain access to security services through a narrow interface. This interface provides a notion of identity that includes simple principals, groups, roles, and delegations. A new operating system component manages principals, credentials, and secure channels. It checks credentials according to the formal rules of a logic of authentication. Our implementation is efficient enough to sup ...

Keywords: cryptography, mathematical logic

60 Authentication in the Taos operating system

Edward Wobber, Martín Abadi, Michael Burrows, Butler Lampson

December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the
fourteenth ACM symposium on Operating systems principles SOSP
'93**, Volume 27 Issue 5

Publisher: ACM Press

Full text available: pdf(1.45 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a design and implementation of security for a distributed system. In our system, applications access security services through a narrow interface. This interface provides a notion of identity that includes simple principals, groups, roles, and delegations. A new operating system component manages principals, credentials, and secure channels. It checks credentials according to the formal rules of a logic of authentication. Our implementation is efficient enough to support a substantialia ...

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Result page: [previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [next](#)Relevance scale ☐ ☐ ☐ ☐ ☐**61** [OpenDHT: a public DHT service and its uses](#)

Sean Rhea, Brighten Godfrey, Brad Karp, John Kubiawicz, Sylvia Ratnasamy, Scott Shenker, Ion Stoica, Harlan Yu

 August 2005 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2005 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '05**, Volume 35 Issue 4

Publisher: ACM Press

Full text available: pdf(535.74 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Large-scale distributed systems are hard to deploy, and distributed hash tables (DHTs) are no exception. To lower the barriers facing DHT-based applications, we have created a public DHT service called OpenDHT. Designing a DHT that can be widely shared, both among mutually untrusting clients and among a variety of applications, poses two distinct challenges. First, there must be adequate control over storage allocation so that greedy or malicious clients do not use more than their fair share. Se ...

Keywords: distributed hash table, peer-to-peer, resource allocation**62** [DNSSEC: a protocol toward securing the internet infrastructure](#)

Amy Friedlander, Allison Mankin, W. Douglas Maughan, Stephen D. Crocker

 June 2007 **Communications of the ACM**, Volume 50 Issue 6

Publisher: ACM Press

Full text available: pdf(191.64 KB)

html(29.58 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

DNSSEC is properly understood as a component in an ecology of security protocols and measures.

63 [Architecture for Protecting Critical Secrets in Microprocessors](#)

Ruby B. Lee, Peter C. S. Kwan, John P. McGregor, Jeffrey Dwoskin, Zhenghong Wang

 May 2005 **ACM SIGARCH Computer Architecture News , Proceedings of the 32nd annual international symposium on Computer Architecture ISCA '05**, Volume 33 Issue 2

Publisher: IEEE Computer Society, ACM Press

Full text available:  [pdf\(143.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [cited by](#), [index terms](#)


We propose "secret-protected (SP)" architecture to enable secure and convenient protection of critical secrets for a given user in an on-line environment. Keys are examples of critical secrets, and key protection and management is a fundamental problem $\hat{=}$ often assumed but not solved $\hat{=}$ underlying the use of cryptographic protection of sensitive files, messages, data and programs. SP-processors contain a minimalist set of architectural features that can be built into a general-purpose microprocess ...

64 A secure distributed framework for achieving k -anonymity

Wei Jiang, Chris Clifton

November 2006 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 15 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(990.09 KB\)](#) Additional Information: [full citation](#), [abstract](#)

k -anonymity provides a measure of privacy protection by preventing re-identification of data to fewer than a group of k data items. While algorithms exist for producing k -anonymous data, the model has been that of a single source wanting to publish data. Due to privacy issues, it is common that data from different sites cannot be shared directly. Therefore, this paper presents a two-party framework along with an application that generates k -anonymous data from two ver ...

Keywords: Anonymity, Privacy, Security

65 Cryptographic verification of test coverage claims



Prem Devanbu, Stuart G. Stubblebine

November 1997 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 6th European conference held jointly with the 5th ACM SIGSOFT international symposium on Foundations of software engineering ESEC '97/FSE-5**, Volume 22 Issue 6

Publisher: Springer-Verlag New York, Inc., ACM Press

Full text available:  [pdf\(1.67 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

66 Authentication: Identity certified authentication for ad-hoc networks



André Weimerskirch, Dirk Westhoff

October 2003 **Proceedings of the 1st ACM workshop on Security of ad hoc and sensor networks SASN '03**

Publisher: ACM Press

Full text available:  [pdf\(160.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Ad-hoc networks face huge security lacks. In the most general case entities need to build up a well-defined security association without any pre-established secret or common security infrastructure. In previous work we presented a protocol which provides a weak form of authentication that we call zero common-knowledge (ZCK) authentication. The protocol is extremely efficient and only requires symmetric primitives but does not provide identification. In this work we extend this approach in such a ...

Keywords: ad-hoc networks, authentication, identification, key-chains, security

67 Delegation logic: A logic-based approach to distributed authorization

Ninghui Li, Benjamin N. Grosz, Joan Feigenbaum



February 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 1

Publisher: ACM Press

Full text available: [pdf\(316.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We address the problem of authorization in large-scale, open, distributed systems. Authorization decisions are needed in electronic commerce, mobile-code execution, remote resource sharing, privacy protection, and many other applications. We adopt the trust-management approach, in which "authorization" is viewed as a "*proof-of-compliance*" problem: Does a set of credentials prove that a request complies with a policy? We develop a logic-based language, called *Delegation Logic* (DL), t ...

Keywords: Access control, Delegation Logic, distributed system security, logic programs, trust management

68 Untraceability in mobile networks



Didier Samfat, Refik Molva, N. Asokan

December 1995 **Proceedings of the 1st annual international conference on Mobile computing and networking MobiCom '95**

Publisher: ACM Press

Full text available: [pdf\(1.20 MB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Keywords: CDPD, GSM, alias, anonymity, authentication, location privacy, mobility, security

69 Role-based access control on the web



Joon S. Park, Ravi Sandhu, Gail-Joon Ahn

February 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available: [pdf\(331.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Current approaches to access control on the Web servers do not scale to enterprise-wide systems because they are mostly based on individual user identities. Hence we were motivated by the need to manage and enforce the strong and efficient RBAC access control technology in large-scale Web environments. To satisfy this requirement, we identify two different architectures for RBAC on the Web, called user-pull and server-pull. To demonstrate feasibility, we im ...

Keywords: WWW security, cookies, digital certificates, role-based access control

70 DIM security and authentication: An authentication method for interaction between personal servers based on the exchange of addresses



Akinori Shiraga, Tsuyoshi Abe, Masahisa Kawashima

November 2005 **Proceedings of the 2005 workshop on Digital identity management DIM '05**

Publisher: ACM Press

Full text available: [pdf\(523.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The sharing of information held on personal servers is becoming widespread, as represented by Weblogs, SNS, etc. In this situation, it is necessary for each personal

server to authenticate users autonomously without any special conditions for the site to which they belong. In this paper, we propose an authentication method for interaction between personal servers. The proposal introduces a new method, which involves retrieving a public key based on the prior exchange of addresses. It requires no ...

Keywords: P2P, authentication, certificate

71 Sensors and networking: Optimizing BGP security by exploiting path stability

 Kevin Butler, Patrick McDaniel, William Aiello

October 2006 **Proceedings of the 13th ACM conference on Computer and communications security CCS '06**

Publisher: ACM Press

Full text available:  pdf(411.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Border Gateway Protocol (BGP) is the de facto interdomain routing protocol on the Internet. While the serious vulnerabilities of BGP are well known, no security solution has been widely deployed. The lack of adoption is largely caused by a failure to find a balance between deployability, cost, and security. In this paper, we consider the design and performance of BGP path authentication constructions that limit resource costs by exploiting route stability. Based on a year-long study of BGP t ...

Keywords: BGP, path stability, routing, security

72 Enforcing cooperative resource sharing in untrusted P2P computing environments

Zhengqiang Liang, Weisong Shi

December 2005 **Mobile Networks and Applications**, Volume 10 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  pdf(436.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Peer-to-Peer (P2P) computing is widely recognized as a promising paradigm for building next generation distributed applications. However, the autonomous, heterogeneous, and decentralized nature of participating peers introduces the following challenge for resource sharing: how to make peers profitable in the untrusted P2P environment? To address the problem, we present a self-policing and distributed approach by combining two models: PET, a personalized trust model, and M-CUBE, a multiple-curren ...

Keywords: P2P, cooperative, economic model, heterogeneous, resource sharing, trust model, untrusted environment

73 Discovering relations among named entities from large corpora

Takaaki Hasegawa, Satoshi Sekine, Ralph Grishman

July 2004 **Proceedings of the 42nd Annual Meeting on Association for Computational Linguistics ACL '04**

Publisher: Association for Computational Linguistics

Full text available:  pdf(243.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Discovering the significant relations embedded in documents would be very useful not only for information retrieval but also for question answering and summarization. Prior methods for relation discovery, however, needed large annotated corpora which cost a great deal of time and effort. We propose an unsupervised method for relation discovery from large corpora. The key idea is clustering pairs of named entities according to the similarity of context words intervening between the named entities ...

74 Improved proxy re-encryption schemes with applications to secure distributed storage



Giuseppe Ateniese, Kevin Fu, Matthew Green, Susan Hohenberger
February 2006 **ACM Transactions on Information and System Security (TISSEC)**, Volume 9 Issue 1

Publisher: ACM Press

Full text available: pdf(331.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In 1998, Blaze, Bleumer, and Strauss (BBS) proposed an application called *atomic proxy re-encryption*, in which a semitrusted proxy converts a ciphertext for Alice into a ciphertext for Bob *without* seeing the underlying plaintext. We predict that fast and secure re-encryption will become increasingly popular as a method for managing encrypted file systems. Although efficiently computable, the wide-spread adoption of BBS re-encryption has been hindered by considerable security risks. ...

Keywords: Proxy re-encryption, bilinear maps, double decryption, key translation

75 Access control: SecureBus: towards application-transparent trusted computing with mandatory access control



Xinwen Zhang, Michael J. Covington, Songqing Chen, Ravi Sandhu
March 2007 **Proceedings of the 2nd ACM symposium on Information, computer and communications security ASIACCS '07**

Publisher: ACM Press

Full text available: pdf(154.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The increasing number of software-based attacks has attracted substantial efforts to prevent applications from malicious interference. For example, Trusted Computing (TC) technologies have been recently proposed to provide strong isolation on application platforms. On the other hand, today pervasively available computing cycles and data resources have enabled various distributed applications that require collaboration among different application processes. These two conflicting trends grow in ...

Keywords: SecureBus, mandatory access control, secure platform, trusted computing

76 Public infrastructures for internet access in metropolitan areas



Elias C. Efstathiou, Fotios A. Elianos, Pantelis A. Frangoudis, Vasileios P. Kemerlis, Dimitrios C. Paraskevaïdis, Eleftherios C. Stefanis, George C. Polyzos
September 2006 **Proceedings of the 1st international conference on Access networks AccessNets '06**

Publisher: ACM Press

Full text available: pdf(129.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wireless Community Networks (WCNs) are metropolitan-area networks with nodes owned and managed by volunteers. These networks can be used to build large scale public infrastructures for providing ubiquitous wireless broadband access through the private contributions of individual community members who use their hotspots to forward foreign traffic from and to nearby low-mobility users. We have designed and developed a prototype aggregation scheme that (1) assumes that community members are selfish ...

Keywords: WiFi networks, community networks, incentives, peer-to-peer, secure VoIP, security

77 Cryptography: Proxy re-signatures: new definitions, algorithms, and applications



Giuseppe Ateniese, Susan Hohenberger
November 2005 **Proceedings of the 12th ACM conference on Computer and communications security CCS '05**

Publisher: ACM PressFull text available:  [pdf\(225.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In 1998, Blaze, Bleumer, and Strauss (BBS) proposed *proxy re-signatures*, in which a semi-trusted proxy acts as a *translator* between Alice and Bob. To translate, the proxy converts a signature from Alice into a signature from Bob on the same message. The proxy, however, does not learn any signing key and cannot sign arbitrary messages on behalf of either Alice or Bob. Since the BBS proposal, the proxy re-signature primitive has been largely ignored, but we show that it is a very use ...

Keywords: authenticating path in network, bilinear maps, proxy re-signature

78 Applied cryptography II: Multi-signatures in the plain public-Key model and a general forking lemma



Mihir Bellare, Gregory Neven

October 2006

Proceedings of the 13th ACM conference on Computer and communications security CCS '06**Publisher:** ACM PressFull text available:  [pdf\(279.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A multi-signature scheme enables a group of signers to produce a compact, joint signature on a common document, and has many potential uses. However, existing schemes impose key setup or PKI requirements that make them impractical, such as requiring a dedicated, distributed key generation protocol amongst potential signers, or assuming strong, concurrent zero-knowledge proofs of knowledge of secret keys done to the CA at key registration. These requirements limit the use of the schemes. We provi ...

Keywords: cryptography, digital signatures, forking lemma, multi-signatures

79 Research track paper: Anonymity-preserving data collection



Zhiqiang Yang, Sheng Zhong, Rebecca N. Wright

August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05****Publisher:** ACM PressFull text available:  [pdf\(817.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Protection of privacy has become an important problem in data mining. In particular, individuals have become increasingly unwilling to share their data, frequently resulting in individuals either refusing to share their data or providing incorrect data. In turn, such problems in data collection can affect the success of data mining, which relies on sufficient amounts of accurate data in order to produce meaningful results. Random perturbation and randomized response techniques can provide some I ...

Keywords: anonymity, data collection, data mining

80 Consistency enforcement and secure grids: Mesh: secure, lightweight grid middleware using existing SSH infrastructure



Paul Z. Kolano

June 2007 **Proceedings of the 12th ACM symposium on Access control models and technologies SACMAT '07****Publisher:** ACM PressFull text available:  [pdf\(178.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Grid computing promises gains in effective computational power, resource utilization, and

resource accessibility, but in order to achieve these gains, organizations must deploy grid middleware that, in most cases, does not adhere to fundamental security principles. This paper introduces a new lightweight grid middleware called Mesh, which is based on the addition of a single sign-on capability to the built-in public key authentication mechanism of SSH using system call interposition. The init ...

Keywords: SSH, access control, authentication, authorization, delegation, distributed systems, grids, middleware, security, single sign-on

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81 QUIP: a protocol for securing content in peer-to-peer publish/subscribe overlay
networks

Amy Beth Corman, Peter Schachte, Vanessa Teague

January 2007 **Proceedings of the thirtieth Australasian conference on Computer science - Volume 62 ACSC '07**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(192.93 KB) Additional Information: full citation, abstract, references

Publish/subscribe networks provide an interface for publishers to perform many-to-many communication to subscribers without the inefficiencies of broadcasting. Each subscriber submits a description of the sort of content they are interested in, then the publish/subscribe system delivers any appropriate messages as they are published. Although publish/subscribe networks offer advantages over traditional web-based content delivery, they also introduce security issues. The two security problems ...

Keywords: network protocol, peer-to-peer, publish/subscribe, security

⁸² DRM usability and legal issues: Import/export in digital rights management

Reihaneh Safavi-Naini, Nicholas Paul Sheppard, Takeyuki Uehara

October 2004 **Proceedings of the 4th ACM workshop on Digital rights management
DRM '04**

Publisher: ACM Press

Full text available: pdf(211.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#), [index terms](#)

The inherently controlled nature of digital rights management systems does little to promote inter-operability of systems provided by different vendors. In this paper, we consider import and export functionality by which multimedia protected by one digital rights management regime can be made available to a multimedia device that supports a different digital rights management regime, without compromising the protection afforded to the content under the original regime. We first identify speci ...

Keywords: digital rights management, export, import, inter-operability

83 RFID & watermarking: Protecting RFID communications in supply chains

Yingjiu Li, Xuhua Ding

**March 2007 Proceedings of the 2nd ACM symposium on Information, computer and communications security ASIACCS '07****Publisher:** ACM PressFull text available: pdf(160.66 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent years have seen much growing attention on RFID security. However, little work has been performed to address the security issues in the context of supply chain management, which is exactly the major field for RFID applications. Existing RFID solutions cannot be applied directly in this field because of a set of special RFID security requirements to be addressed for supply chain management. The major contribution of this paper is to identify the unique set of security requirements in sup ...

Keywords: RFID, information security, supply chain**84 Periodical payment model using restricted proxy certificates**

Grigori Goldman

January 2007 **Proceedings of the thirtieth Australasian conference on Computer science - Volume 62 ACSC '07****Publisher:** Australian Computer Society, Inc.Full text available: pdf(176.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#) .

In this paper we shall introduce a new electronic payment concept based on the popular direct debit payment model, entitled periodical payments. The direct debit model currently in use online is neither secure nor flexible, and requires a leap of faith by the customer who must trust the merchant to behave honestly. Electronic direct debit request (DDR) forms are not signed by both parties in a binding manner, which means that merchants can change the terms of DDR agreements post-fact. Unsigne ...

Keywords: direct debit, e-commerce, payment, periodical**85 Curricular basics and trends: Computational concepts in IT: a new approach to IT mathematics**

Soleda T. Leung, Christopher Johnson

October 2005 **Proceedings of the 6th conference on Information technology education SIGITE '05****Publisher:** ACM PressFull text available: pdf(87.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Mathematics has always been extensively included in computing curricula. The latest draft of IT Volume recommends a fair amount of mathematics as well. Our question has never been whether mathematics should be taught in computing disciplines; but rather, how to teach mathematical topics effectively so as to provide this crucial foundation for our IT majors. In many cases, mathematics courses provided by institutions are taught by mathematics faculty from a pure mathematical view point. The burde ...

Keywords: algorithm, algorithm design, application, approximation, curriculum design, graph theory, information technology, mathematics, number theory**86 Techniques for trusted software engineering**


Premkumar T. Devanbu, Philip W-L Fong, Stuart G. Stubblebine

April 1998 **Proceedings of the 20th international conference on Software engineering ICSE '98****Publisher:** IEEE Computer Society

Full text available:

 pdf(1.21 MB)  Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
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87 [The architecture of robust publishing systems](#)

 Marc Waldman, Aviel D. Rubin, Lorrie Faith Cranor

November 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 2

Publisher: ACM Press

Full text available:  pdf(680.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Internet in its present form does not protect content from censorship. It is straightforward to trace any document back to a specific Web server, and usually directly to an individual. As we discuss below, there are valid reasons for publishing a document in a censorship-resistant manner. Unfortunately, few tools exist that facilitate this form of publishing. We describe the architecture of robust systems for publishing content on the Web. The discussion is in the context of Publius, as that ...


Keywords: Censorship resistance, Web publishing

88 [Securing the global, remote, mobile user](#)

Walt Curtis, Lori Sinton

March 1999 **International Journal of Network Management**, Volume 9 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(982.14 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Electronic commerce is inevitable and will reshape our lives, but before true electronic commerce environments can be realized, it will be necessary to secure your enterprise against outside attacks on its electronic information and provide controls for authorized access to that information. Copyright © 1999 John Wiley & Sons, Ltd.

89 [Technical paper session 3: cryptography and storage: Non-volatile memory and disks:: avenues for policy architectures](#)

Kevin R. B. Butler, Stephen E. McLaughlin, Patrick D. McDaniel

November 2007 **Proceedings of the 2007 ACM workshop on Computer security architecture CSAW '07**

Publisher: ACM

Full text available:  pdf(382.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As computing models change, so too do the demands on storage. Distributed and virtualized systems introduce new vulnerabilities, assumptions, and performance requirements on disks. However, traditional storage systems have very limited capacity to implement needed "advanced storage" features such as integrity and data isolation. This is largely due to the simple interfaces and limited computing resources provided by commodity hard-drives. A new generation of storage devices affords better oppor ...

Keywords: NVRAM, labels, security, storage

90 [A comprehensive service discovery solution for mobile ad hoc networks](#)

Jerry Tyan, Qusay H. Mahmoud

August 2005 **Mobile Networks and Applications**, Volume 10 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  pdf(2.03 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Service discovery is an integral part of constructing self-configuring Mobile Ad Hoc Networks (MANETs). While several service discovery protocols have been developed, most of them are designed for infrastructure-based networks and thus not suitable to be used in MANETs. Due the volatile nature of MANET, service discovery protocols designed for MANETs often suffer from problems. Firstly, they have limited scalability due to the extensive use of broadcast communication. Secondly, they usually lack ...

Keywords: Hexell, MANETs, routing, service discovery, service interaction, service selection

91 Trustworthy Web sites: An abuse-free fair contract signing protocol based on the RSA signature



Guilin Wang

May 2005 **Proceedings of the 14th international conference on World Wide Web WWW '05**

Publisher: ACM Press

Full text available: pdf(198.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A fair contract signing protocol allows two potentially mistrusted parties to exchange their commitments (i.e., digital signatures) to an agreed contract over the Internet in a fair way, so that either each of them obtains the other's signature, or neither party does. Based on the RSA signature scheme, a new digital contract signing protocol is proposed in this paper. Like the existing RSA-based solutions for the same problem, our protocol is not only fair, but also optimistic, since the third ...

Keywords: RSA, contract signing, cryptographic protocols, digital signatures, e-commerce, fair-exchange, security



92 Architecture and implementation: On implementing mpeg-21 intellectual property management and protection

Nicholas Paul Sheppard

October 2007 **Proceedings of the 2007 ACM workshop on Digital Rights Management DRM '07**

Publisher: ACM

Full text available: pdf(229.76 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The MPEG-21 Intellectual Property Management and Protection ("IPMP") Components specify a framework for inter-operable and renewable digital rights management based on *IPMP tools* that implement proprietary digital rights management features. MPEG-21 defines the mechanism by which protected multimedia objects are associated with proprietary IPMP tools, but does not specify the interface through which IPMP tools and MPEG-21 terminals communicate. This paper describes an implementation of ...

Keywords: MPEG REL, MPEG-21 IPMP, digital rights management, implementation



93 Public-key support for group collaboration



Carl Ellison, Steve Dohrmann

November 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 4

Publisher: ACM Press

Full text available: pdf(561.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper characterizes the security of group collaboration as being a product not merely of cryptographic algorithms and coding practices, but also of the man-machine process of



group creation. We show that traditional security mechanisms do not properly address the needs of a secured collaboration and present a research prototype, called NGC (next generation collaboration), that was designed to meet those needs. NGC distinguishes itself in the care with which the man-machine process was analy ...

Keywords: Human-computer interface, IPsec, PGP, PKI, S/MIME, SDSI, SPKI, SSH

94 Reinforcement Learning with Factored States and Actions

Brian Sallans, Geoffrey E. Hinton

December 2004 **The Journal of Machine Learning Research**, Volume 5

Publisher: MIT Press

Full text available:  pdf(262.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A novel approximation method is presented for approximating the value function and selecting good actions for Markov decision processes with large state and action spaces. The method approximates state-action values as negative free energies in an undirected graphical model called a product of experts. The model parameters can be learned efficiently because values and derivatives can be efficiently computed for a product of experts. Actions can be found even in large factored action spaces by th ...

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IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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Volume GE-24, [Issue 1](#), Jan. 1986 Page(s):65 - 75
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24-26 Oct. 2007 Page(s):747 - 750
Digital Object Identifier 10.1109/ICEBE.2007.4402175
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[Complex Medical Engineering, 2007, CME 2007, IEEE/ICME International Conference on](#)
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Landells, K.;
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Milicev, D.;
[Software Engineering. IEEE Transactions on](#)
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Glance, B.; Scaramucci, O.;
[Photonics Technology Letters. IEEE](#)
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- ☐ 84. **High-performance dense FDM coherent optical network**
Glance, B.S.; Scaramucci, O.;
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Giese, U.; Christensen, E.L.; Stubkjaer, K.E.;
[Lightwave Technology. Journal of](#)
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McEachern, J.A.;
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Ohmoto, R.; Ohtsuka, H.; Ichikawa, H.;
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Tonguz, O.K.; Tanrikulu, M.O.; Kazovsky, L.G.;

[Lightwave Technology, Journal of](#)
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To, M.; Neusy, P.;
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Kostic, I.M.;
[Communications, Speech and Vision, IEE Proceedings J](#)
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- ☐ 91. **MC-TDMA scheme for downlink broadband wireless communications**
Bin Xu; Chenyang Yang; Guangguo Bi;
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Quek, T.Q.S.; Maeda, N.; Atarashi, H.; Sawahashi, M.;
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- ☐ 94. **Challenges in content management for B2B electronic commerce**
Fensel, D.;
[User Interfaces to Data Intensive Systems, 2001. UIDIS 2001. Proceedings, Second International](#)
31 May-1 June 2001 Page(s):2 - 4
Digital Object Identifier 10.1109/UIDIS.2001.929920
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- ☐ 95. **Butterfly structure in trellis-coded modulation**
Dill, J.C.; Yung-C. Lo; Lindsey, A.R.;
[Global Telecommunications Conference, 1999. GLOBECOM '99](#)
Volume 1B, 1999 Page(s):707 - 711 vol. 1b
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Bodart, F.; Tung Bui; Melard, P.; Vanreusel, J.-F.;
System Sciences, 1997. Proceedings of the Thirtieth Hawaii International Conference on
Volume 2, 7-10 Jan. 1997 Page(s):524 - 532 vol.2
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- ☐ 97. **Even harmonic quadrature modulator with low vector modulation error and low distortion**
Itoh, K.; Shimozaawa, M.; Kawakami, K.; Iida, A.; Ishida, O.;
Microwave Symposium Digest, 1996.. IEEE MTT-S International
Volume 2, 17-21 June 1996 Page(s):967 - 970 vol.2
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- ☐ 98. **On-off keying optical transmission and channel capacity for indoor high rate wireless data**
Kwang-Cheng Chen;
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2-5 Dec 1991 Page(s):418 - 422 vol.1
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Chin-Hwa Lee;
Signals, Systems and Computers, 1994. 1994 Conference Record of the Twenty-Eighth Asilomar
Volume 1, 31 Oct.-2 Nov. 1994 Page(s):89 - 93 vol.1
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Result # 1 Relevance: ○○○○○

Photuris: Session-Key Management Protocol (RFC2522)

1999-03-01 IPCOM000003107D

En

Photuris is a session-key management protocol intended for use with the IP Security Protocol (IPSec) and ESP). This document defines the basic protocol mechanisms.

Result # 2 Relevance: ○○○○○

Diffie-Hellman Proof-of-Possession Algorithms (RFC2875)

2000-07-01 IPCOM000003476D

En

This document describes two methods for producing an integrity check value from a Diffie-Hellman key pair. This behavior is needed for such operations as creating the signature of a PKC certification request. These algorithms are designed to provide a proof-of- ...

Result # 3 Relevance: ○○○○○

Anonymous Delivery of Goods in Electronic Commerce

1996-03-01 IPCOM000117565D

En

Disclosed is a method that allows on-line (electronic) purchase and delivery of (both electronic and physical) goods in a manner that preserves anonymity of the consumer. The method is resistant to cheating by both consumers and merchants.

Result # 4 Relevance: ○○○○○

Point-to-Point SOAP/HTTPS Transport and Security Specification

05-Jun-2007 IPCOM000153612D

En

Result # 5 Relevance: ○○○○

Securely Available Credentials - Requirements (RFC3157)

2001-08-01 IPCOM000005339D

En

This document describes requirements to be placed on Securely Available Credentials (SAC) protocols.

Result # 6 Relevance: ○○○

Public-Key-Based Certification Infrastructure Framework for Asynchronous Transfer Mode

1996-02-01 IPCOM000117415D

En

Disclosed is a public-key-based certification infrastructure framework for ATM which addresses domain certification and certificate revocation and allows organizations that wish to "identify" themselves (and explicitly choose whom they want to communicate ...

Result # 7 Relevance: ○○○

Host Identity Protocol (HIP) Architecture (RFC4423)

2006-05-01 IPCOM000136509D

En

This memo describes a snapshot of the reasoning behind a proposed new namespace, the Host Identity namespace, and a new protocol layer, the Host Identity Protocol (HIP), between internet networking and transport layers. Herein are presented the basics of the current ...

Result # 8 Relevance: ○○○

A Method and Apparatus for the Production of Secure Documents

2005-09-08

IPCOM000127658D

Engl

The problem solved relates to the security of secure documents such as identity cards/

Result # 9

Relevance: **Tagmex - Architecture and Design**

14-Oct-2005

IPCOM000130169D

Englis

Tagmex is a suite of cryptographically-based protocols for identifying the originators of provides two complimentary methods of protection: for the transmission path and for tl itself. It can also be used to identify solicited messages in bulk mailings, ...

Result # 10

Relevance: **Individual control of routine execution permissions and variable read permissions using asymmetric-encryption key pairs**

2005-06-22

IPCOM000125914D

Engl

Disclosed is a method for managing permission for software execution at the routine le read/write access to program variables using asymmetric-encryption key pairs. A public inserted into the program source code and associated to functions or variables. The ...

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Result # 1 Relevance: ○○○○○○

Providing Services in Node Network Modal

1995-12-01

IPCOM000117036D

En

Disclosed is a method in which nodes are dynamically provided network management s computer network resources.

Result # 2 Relevance: ○

Transformation of UML diagrams to text in natural language.

2005-10-20

IPCOM000130330D

En

Actually, Unified Modeling Language (UML) is the formal language generally adopted to specify, construct, and document the artifacts of a software system. Several tools are a market to support software engineers in building UML diagrams. In some ...

Result # 3 Relevance: ○

Attachment Support by Differentiators

2007-04-02

IPCOM000149656D

En

The Attachment Support by Differentiators design is to enhance and provide the capabi associating similar supplementary parts to a Commerce business object as a single atta thereby reducing the total cost of implementation and maintenance. By identifying ...

Result # 4 Relevance: ○

Generic Knowledge Base Acquisition And Specification

1991-08-01

IPCOM000121338D

En

Disclosed is an approach to gather information for a knowledge database in a concise a manner with clear relationships and meanings established for the data. This database c constant data and relationships, for the use of this data, in a set of tables ...

Result # 5 Relevance: ○

Relationships: Improved Integrity for Relational-Based Computer Aid Design/Computer Aided Manufacturing/Geographic Information Syst

1996-12-01

IPCOM000118355D

En

Disclosed is a method for modeling complicated real world relationships in Geographic I Systems. The solution is an application of the entity-relationship model to the instance relational database system. It provides robust insertion, update, and ...

Result # 6 Relevance: ○

Enforcement of object model subsetting rules through the use of trigger referential integrity constraints, and additional columns within a relational database schema.

2003-09-12

IPCOM000019360D

En

Disclosed is a system for designing relational databases such that the subsetting rules (application's object model can be enforced by the db2 database engine without the nee application to execute rules checking routines. Avoidance of rules checking by the ...

Result # 7 Relevance: ○

Self Assembling Hierarchical Index for P2P Network

2002-06-13

IPCOM000015440D

En

Self Assembling Hierarchical Index for P2P Network Self Assembling Hierarchical Index Network This concept solves the problem of how to build and maintain a distributed index of authorized documents, files, data, programs etc. contained in a distributed ...

Result # 8 Relevance: 

A Relational Schema to Support Task and Workflow, Data Collection and

1999-10-01

IPCOM000013323D

Enl

A design of a relational data model that can be used to store task data is disclosed. The data model is optimized for retrieval of task data therefrom and is extendible to add new task data. Each task artifact is stored with a unique identity and any view ...

Result # 9 Relevance: 

Simple Mail Transfer Protocol (RFC2821)

2001-04-01

IPCOM000004999D

Enl

This document is a self-contained specification of the basic protocol for the Internet electronic transport. It consolidates, updates and clarifies, but doesn't add new or change existing parts of the following:

Result # 10 Relevance: 

Techniques for Estimation of the Area of Integrated Digital Circuits

1983-01-31

IPCOM000151634D

Enl

A dissertation submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy (Computer, Information, and Control Engineering) in The University of Michigan. Doctoral Committee: Professor Daniel Atkins, Chairman Professor Keki ...

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Result # 1 Relevance: ○○○○○○

Bipolar Transistor Processing for Circuit Analysis and Design

1975-03-01

IPCOM000083078D

En

This description relates to a convenient and efficient scheme for the processing of bipolar transistors. Two intrinsic models can be implemented as a basic building block for bipolar models. The circuit diagram for the two models is the same as shown in ...

Result # 2 Relevance: ○○○○

A CONSTRUCTIVE METHOD FOR GRAMMATICAL INFERENCE BASED ON CLUSTERING

1977-04-30

IPCOM000148995D

En

A CONSTRUCTIVE METHOD FOR GRAMMATICAL INFERENCE BASED ON CLUSTERING* I supported in part by National Science Foundation Grant ENG 76-11936 Jiunn-I Liou and Dubes Department of Computer Science Michigan State University East Lansing, Michigan

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Please critique my little db

The only **relationship** that I have set up right now is the one between the to apply that to the physicals where I created a **junction table** to link the ...

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Utter Access Discussion Forums - Please critique my little db

The only **relationship** that I have set up right now is the one between the You need a **junction table** to record each instance of each physical taken by ...

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Number=1058055&page=&view=&sb=5&o=&f... - 55k - [Cached](#) - [Similar pages](#)
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PDR Management Institute

... use a **junction table** to create a many-to-many **relationship** between two to generate an RSA **key pair**, and to declare a CA. configure CA support on a ...

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IBM Tivoli Access Manager WebSEAL Messages

0x38983145 (949498181), reloads the **junction table** from the database. Action: Check authentication **relationship** between Access Manager and junctioned ...

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0x38983145 (949498181) reloads the **junction table**. from the database. **link** is used to indicate that a particular element of the ...

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ADO.Net « prabhat.net

One-to-One **relationship** can be implemented as a single table and rarely as ... Many-to-Many relationships are implemented using a **junction table** with the ...

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manual **link**. 手動連結. manufacture. 製造者 ; 製造商. many-to-many **relationship**. 多對多關係. map. 對映 ; 圖 ; 映射. map file. 對映檔案. map network. 對映網路 ...

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Web Results 1 - 10 of about 14 for +link +relationship +"temporary table" many-to-many +"key pair". (0.68 s

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Access 97 Expert Solutions - Chapter 10

If there is a **many-to-many relationship** between your data items, or SELECT INTO in the SQL string to place the chosen ID values in a **temporary table**, ...

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Documentation de Perl 5.6.1

Establish IS-A **relationship** with base class at compile time A **many to many** relation between two tabels DBIx::HTMLView::N2One ...

perl.enstimac.fr/perl5.6.1/frame-index.html - 560k - [Cached](#) - [Similar pages](#)

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A typical **Many-to-Many relationship** would be the one between students. and courses: A student can take many courses and a course can be attended by ...

www.risc.uni-linz.ac.at/education/courses/ws2007/is/ln.pdf - [Similar pages](#)

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language 1 型文法||1-type grammar 1/4英寸盒式磁带||quarter inch ...

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specifying an intersection table (in the case of a **many-to-many relationship**). This multi-value **link's** Destination **Link** property indicates which **link** ...

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Oracle Database 10g OCP Certification Part1

Put in terms of relational analysis, there is a **many-to-many relationship** between segments and datafiles: one table may be cut across many datafiles; ...

www.scribd.com/doc/501866/Oracle-Database-10g-OCP-Certification-Part1 - 608k -

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i am a little confused I am setting up a table with phpmyadmin and ...

I have a table of books, a table of authors, and a table containing books ids and authors ids to reference books with authors in a **many to many relationship** ...

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many-to-many relationship between the table and the remote databases and

uploading rows into a **temporary table** and inserting them into a base ...

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there is a **many-to-many relationship** between the table and the remote a **temporary**

table named #hook_dict, with the following contents: ...

www.ianywhere.com/developer/product_manuals/sqlanywhere/0901/en/pdf/dbmlen9.pdf -

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